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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,770	06/27/2003	Michael Yatziv	82225P8522	6441

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BLAKELY SOKOLOFF TAYLOR & ZAFMAN
12400 WILSHIRE BOULEVARD
SEVENTH FLOOR
LOS ANGELES, CA 90025-1030

EXAMINER

KIM, HAROLD J

ART UNIT PAPER NUMBER

2182

DATE MAILED: 03/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/607,770

Applicant(s)

YATZIV ET AL.

Examiner

Harold Kim

Art Unit

2182

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-39 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,8,14,21,27 and 34 is/are rejected.
- 7) ☒ Claim(s) 2-7,9-13,15-20,22-26,28-33 and 35-39 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 June 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. Claims 1-39 are presented for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. **Claims 1, 8, 14, 21, 27, 34 are rejected under 35 U.S.C. 102(b) as being anticipated by Wakazu, US Patent no. 6,006,287.**

4. In re claim 1, Wakazu shows a method comprising:

creating an atomic data storage unit [303, fig 3] containing a first type of data [303, fig 3] requiring a first type of processing [309, fig 3] and a second type of data [304, fig 3] requiring a second type of processing [308, fig 3]; and

transferring the first type of data to a first memory address space [208, fig 2] via a direct memory access operation [306, fig 3; col 9, lines 46-67] and transferring the second type of data to a second memory address space [207, fig 2] via the direct memory access operation [306, fig 3; col 9, lines 46-67].

5. In re claim 8, Wakazu shows the second type of processing includes software manipulation of the second type of data [col 9, lines 3-7].

6. In re claim 14, Wakazu shows data storage system [figs 2 and 3] comprising:

a storage medium [302, fig 3] having stored thereon a plurality of atomic data storage units [303, 304, 305, fig 3] containing a first type of data [303, fig 3] requiring a

Art Unit: 2182

first type of processing [309, fig 3] and a second type of data [304, fig 3] requiring a second type of processing [308, fig 3]; and

a direct memory access controller [306, fig 3] coupled to the storage medium configured to transfer the first type of data to a first memory address space [208, fig 2] via a direct memory access operation [306, fig 3; col 9, lines 46-67] and transfer the second type of data to a second memory address space [207, fig 2] via the direct memory access operation [306, fig 3; col 9, lines 46-67].

7. In re claim 27, Wakazu shows an apparatus comprising:

means for creating an atomic data storage unit [303, fig 3] containing a first type of data [303, fig 3] requiring a first type of processing [309, fig 3] and a second type of data [304, fig 3] requiring a second type of processing [308, fig 3]; and

means for transferring the first type of data to a first memory address space [208, fig 2] via a direct memory access operation [306, fig 3; col 9, lines 46-67] and transferring the second type of data to a second memory address space [207, fig 2] via the direct memory access operation [306, fig 3; col 9, lines 46-67].

8. Claims 21 and 34 are rejected same rationale as above claim 9.

Allowable Subject Matter

9. Claims 2-7, 9-13, 15-20, 22-26, 28-33, and 35-39 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in

Art Unit: 2182

independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Further references of interest are cited on Form PLO-892, which is attachment to this office action.

Any response to this action should be mailed to:

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The centralized fax number is 703 872-9306.

The centralized hand carry paper drop off location is:

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Customer Window
Crystal Plaza Two, Lobby, Room 1B03

Any inquiry of a general nature or relating to the status of this application should be directed to the central telephone number (571) 272-2100.

Direct any inquiries concerning drawing review to the Drawing Review Branch (703) 305-8404.

Art Unit: 2182


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harold Kim whose telephone number is 571-272-4148. The examiner can normally be reached on Monday-Thursday 6AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on 571-272-4146. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HK

Harold J. Kim
Patent Examiner
March 20, 2005/HK


JEFFREY GAFFIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100